FIG. 1 PRIOR ART

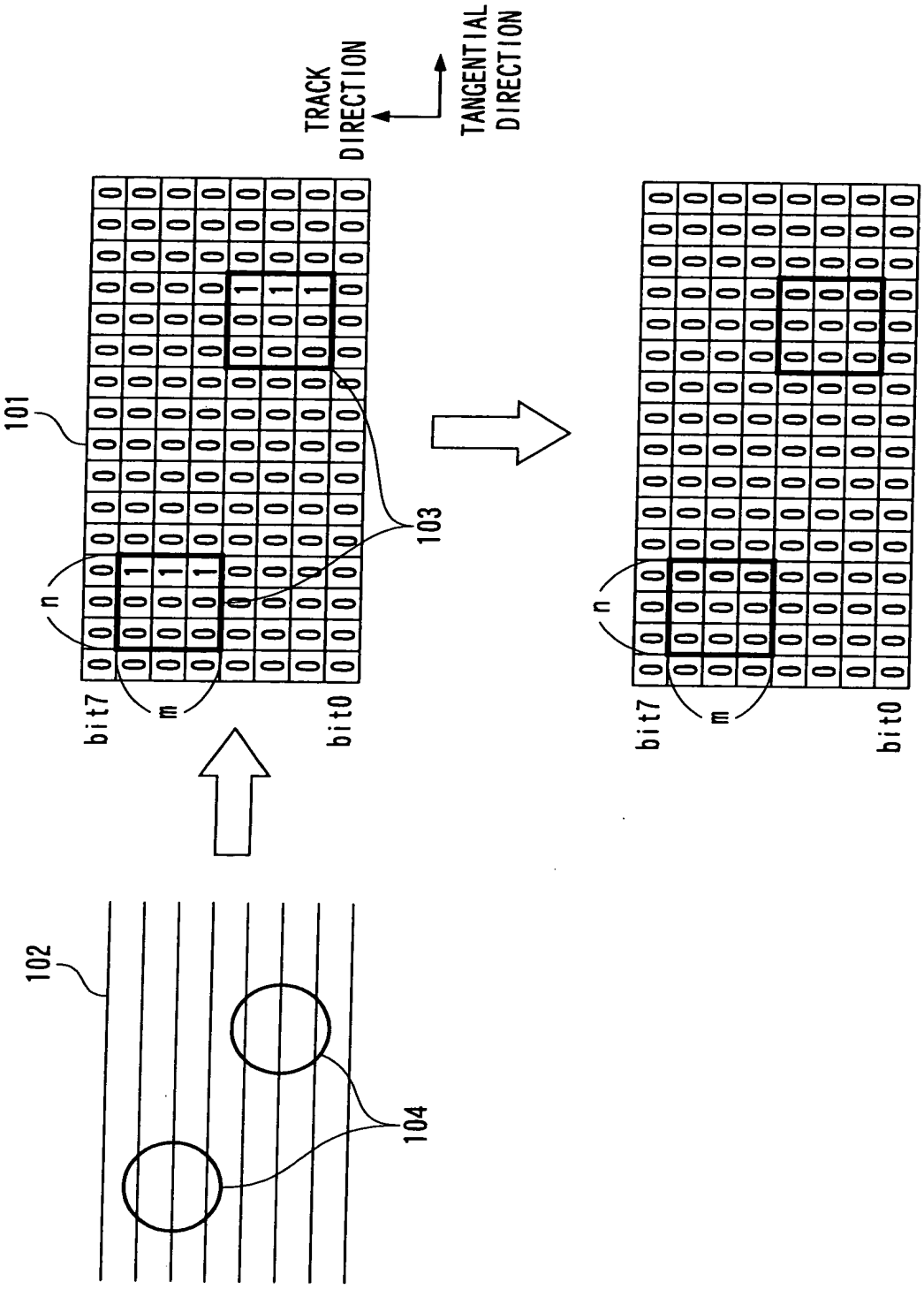


FIG. 2 PRIOR ART

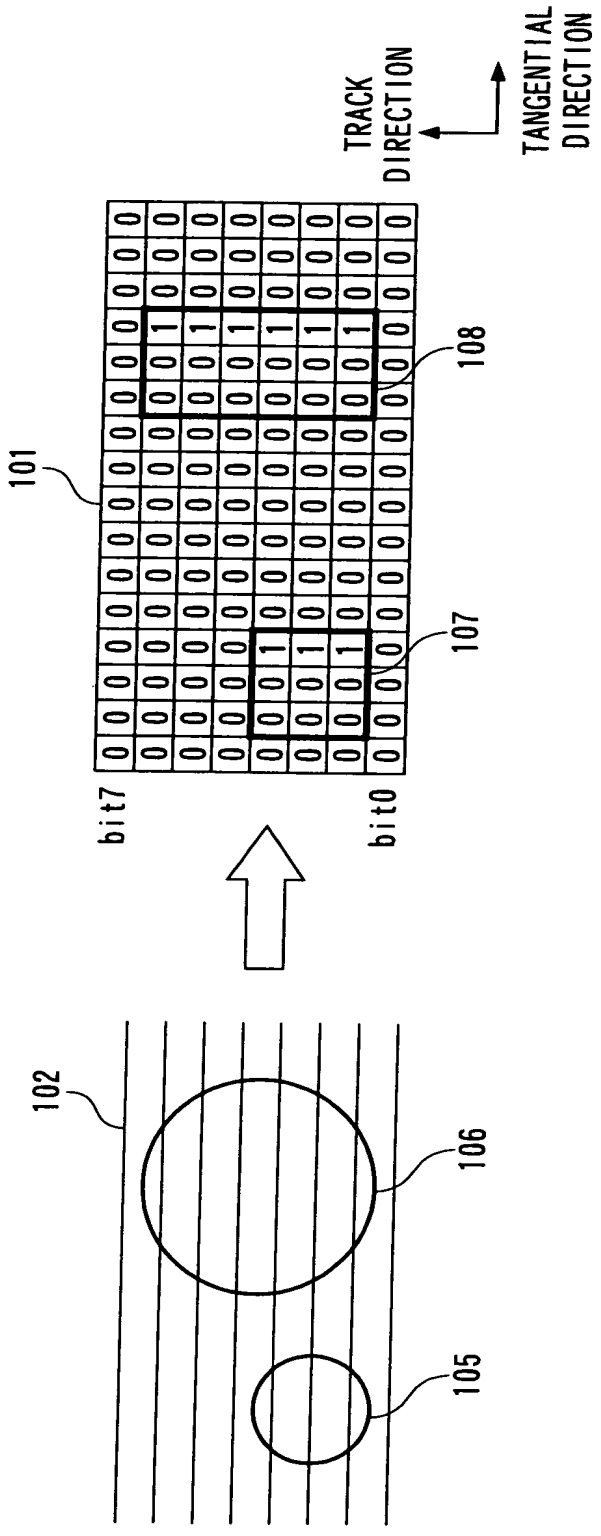


FIG. 3

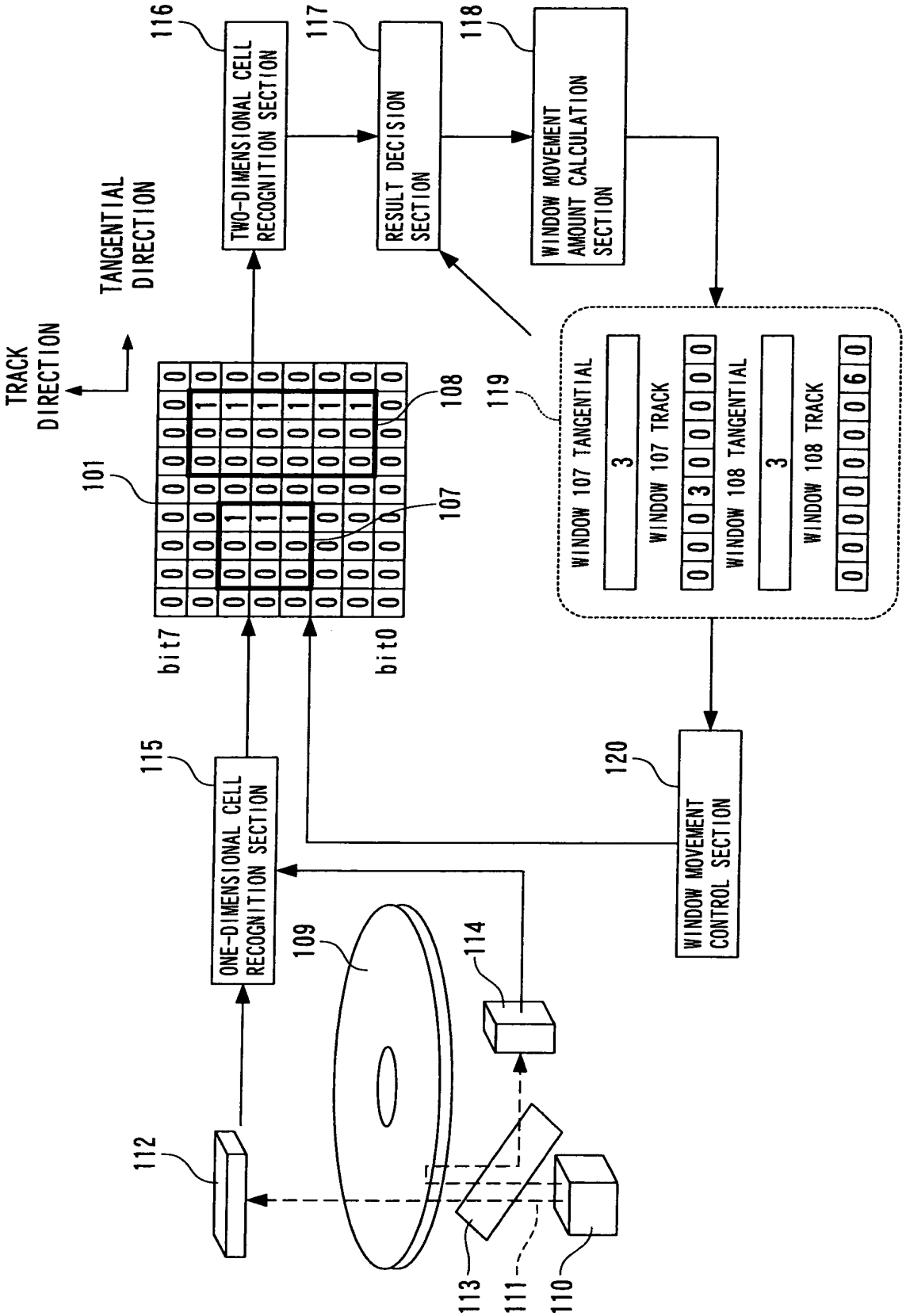

TWO-DIMENSIONAL CELL RECOGNITION SECTION
RESULT DECISION SECTION
WINDOW MOVEMENT AMOUNT CALCULATION SECTION
TANGENTIAL DIRECTION
TRACK DIRECTION
WINDOW 107 TANGENTIAL
WINDOW 107 TRACK
WINDOW 108 TANGENTIAL
WINDOW 108 TRACK
ONE-DIMENSIONAL CELL RECOGNITION SECTION
WINDOW MOVEMENT CONTROL SECTION
bit7
bit0
101
107
108
109
110
111
112
113
114
115
116
117
118
119
120

FIG. 4

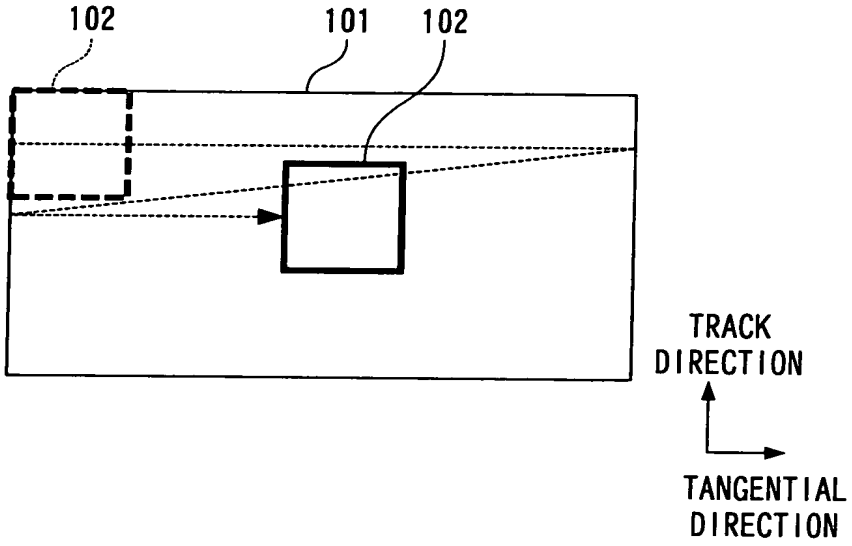


FIG. 5

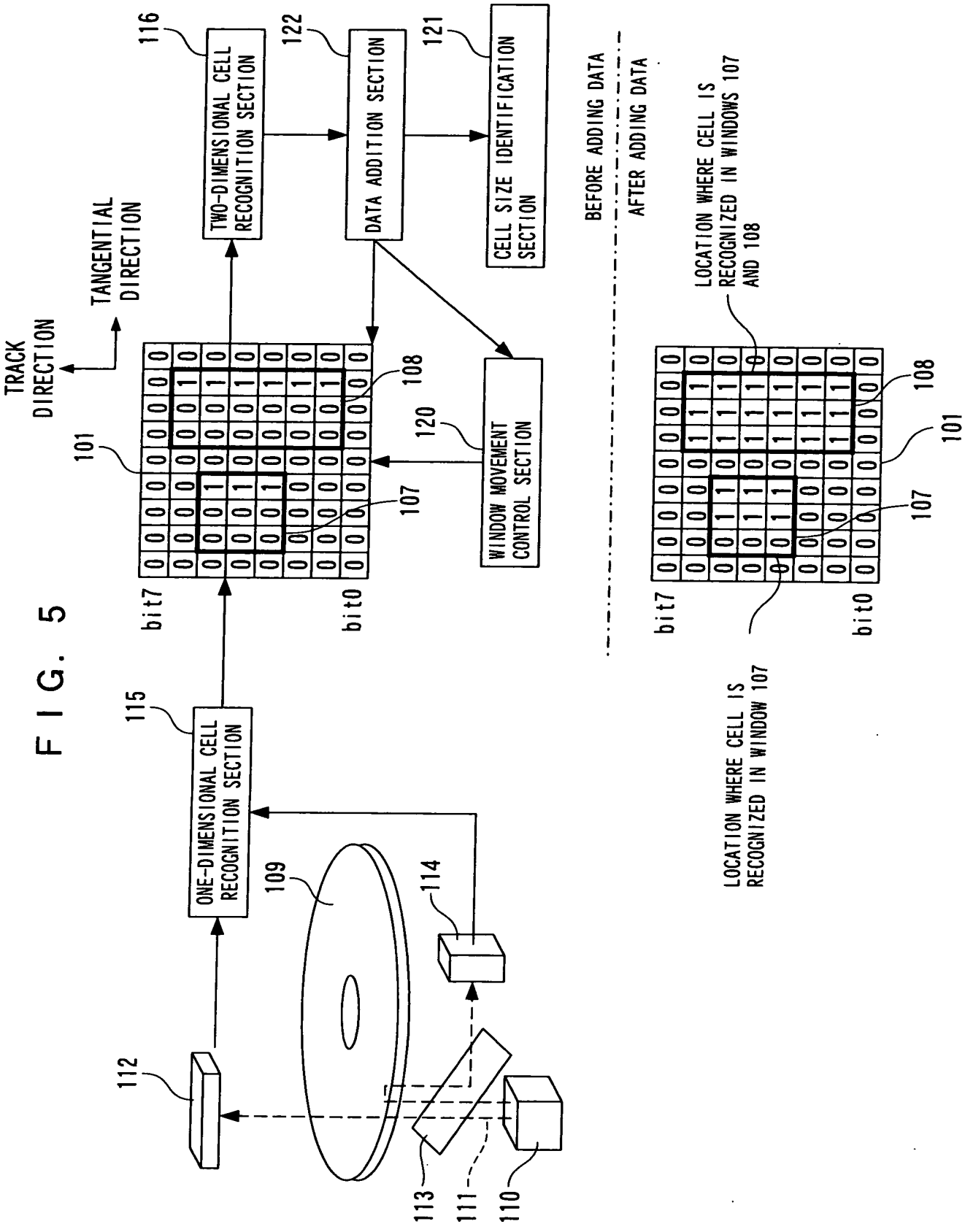

TRACK DIRECTION
TANGENTIAL DIRECTION
ONE-DIMENSIONAL CELL RECOGNITION SECTION
TWO-DIMENSIONAL CELL RECOGNITION SECTION
DATA ADDITION SECTION
CELL SIZE IDENTIFICATION SECTION
WINDOW MOVEMENT CONTROL SECTION
bit7
bit0
101
107
108
109
110
111
112
113
114
115
116
120
121
122
BEFORE ADDING DATA
AFTER ADDING DATA
LOCATION WHERE CELL IS RECOGNIZED IN WINDOW 107
LOCATION WHERE CELL IS RECOGNIZED IN WINDOWS 107 AND 108

FIG. 6

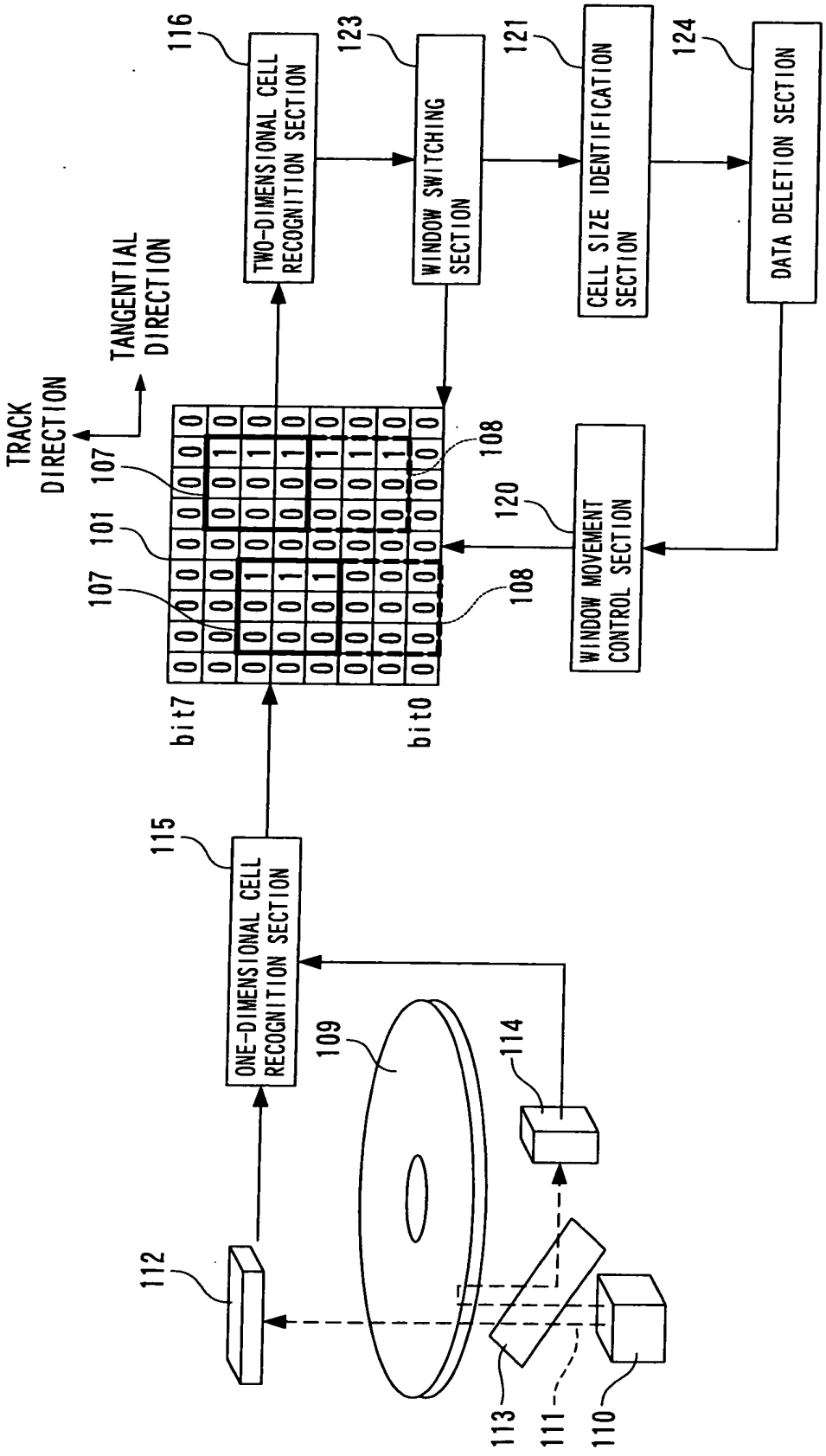

116
TWO-DIMENSIONAL CELL RECOGNITION SECTION
123
WINDOW SWITCHING SECTION
121
CELL SIZE IDENTIFICATION SECTION
124
DATA DELETION SECTION
TANGENTIAL DIRECTION
TRACK DIRECTION
107
101
107
108
108
120
WINDOW MOVEMENT CONTROL SECTION
bit7
bit0
115
ONE-DIMENSIONAL CELL RECOGNITION SECTION
109
114
112
113
111
110

FIG. 7 (a)

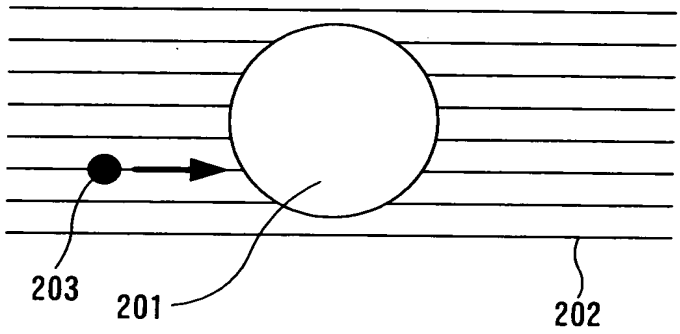

203
201
202

FIG. 7 (b)

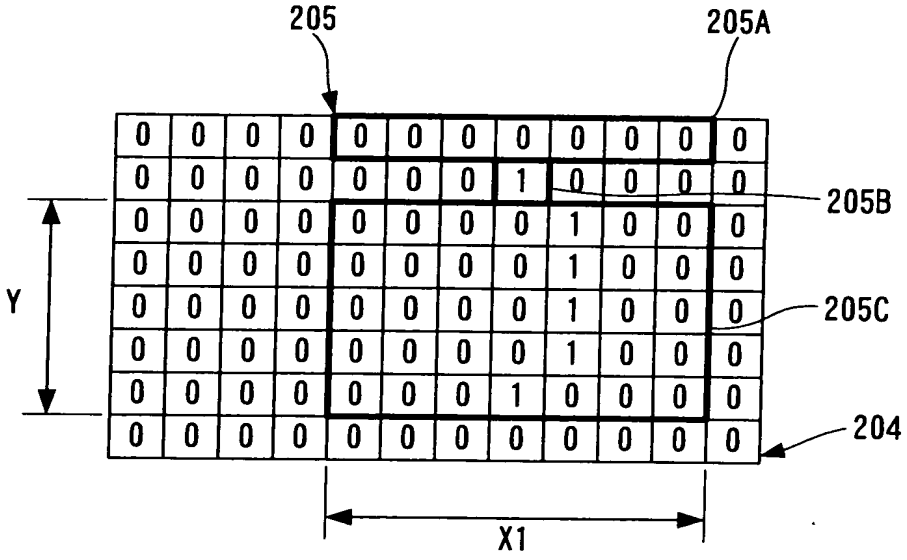

205
205A
205B
205C
204
Y
X1
0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 1 0 0 0 0
0 0 0 0 0 0 0 0 1 0 0 0
0 0 0 0 0 0 0 0 1 0 0 0
0 0 0 0 0 0 0 0 1 0 0 0
0 0 0 0 0 0 0 0 1 0 0 0
0 0 0 0 0 0 0 1 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0

FIG. 8 (a)

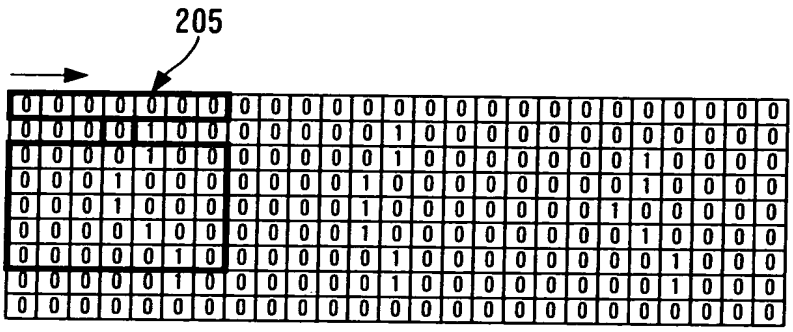


FIG. 8 (b)

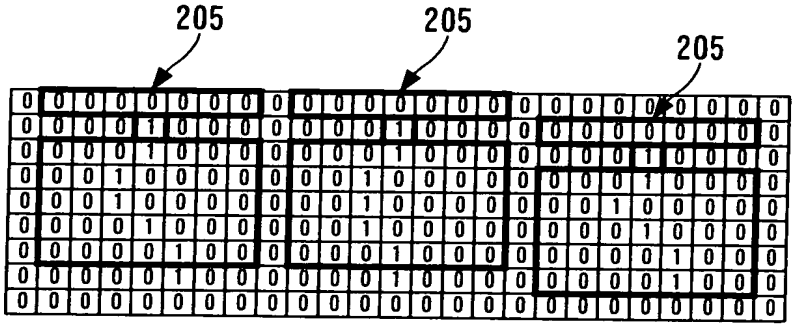


FIG. 8 (c)

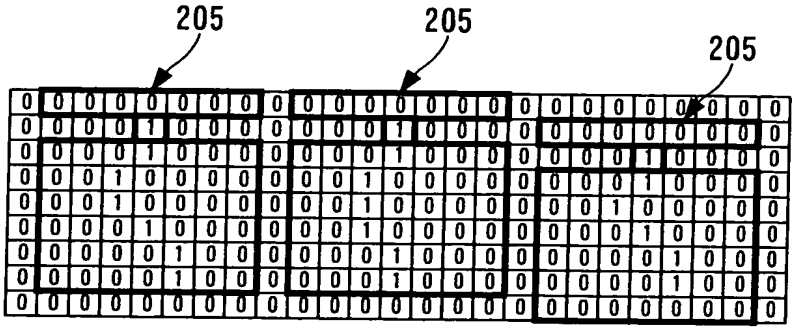


FIG. 9 (a)

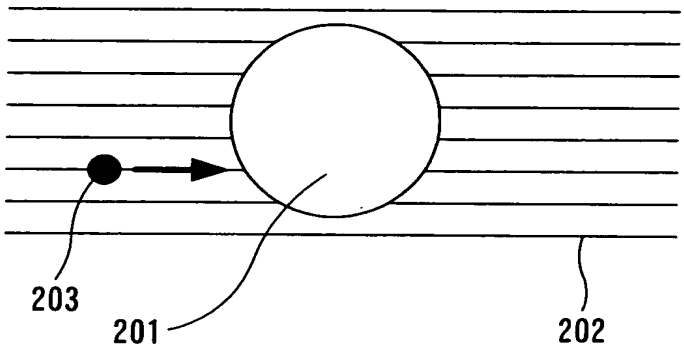

203
201
202

FIG. 9 (b)

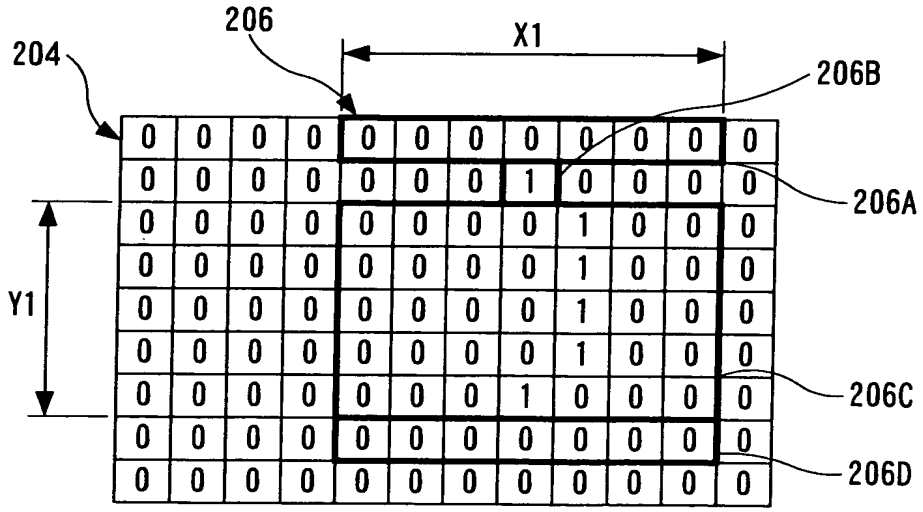

206
X1
204
206B
206A
Y1
206C
206D
0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 1 0 0 0 0
0 0 0 0 0 0 0 0 1 0 0 0
0 0 0 0 0 0 0 0 1 0 0 0
0 0 0 0 0 0 0 0 1 0 0 0
0 0 0 0 0 0 0 0 1 0 0 0
0 0 0 0 0 0 0 1 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0 0 0

FIG. 10 (a)

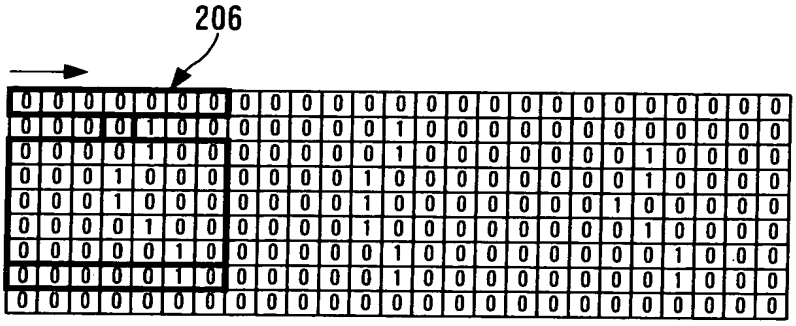


FIG. 10 (b)

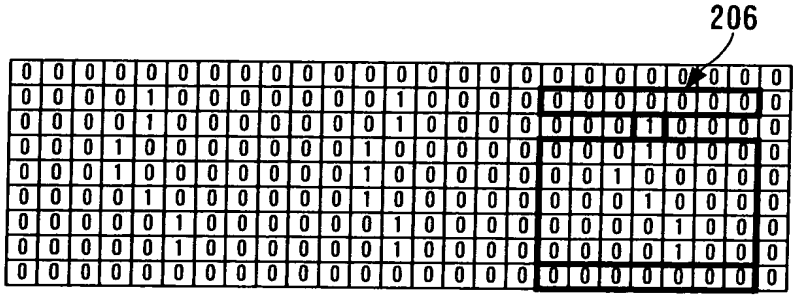


FIG. 11 (a) PRIOR ART

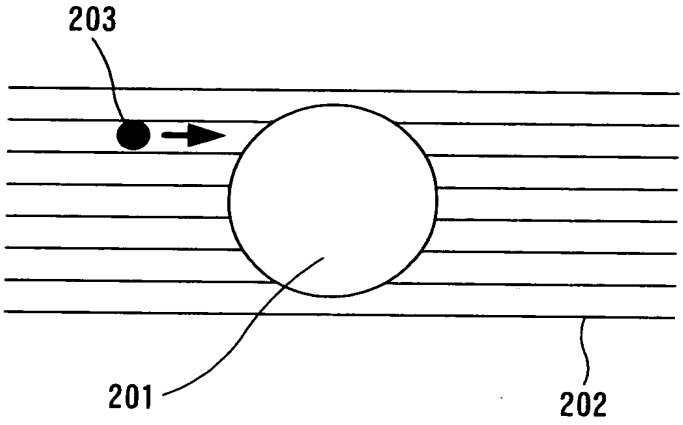


FIG. 11 (b) PRIOR ART

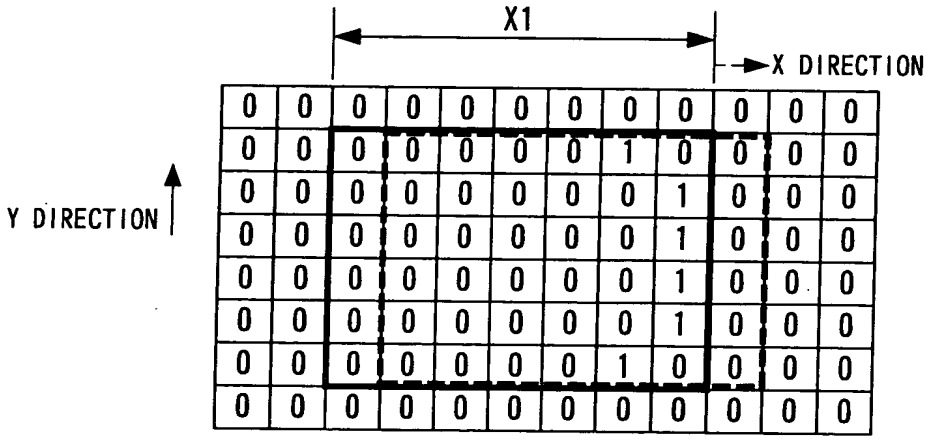


FIG. 12

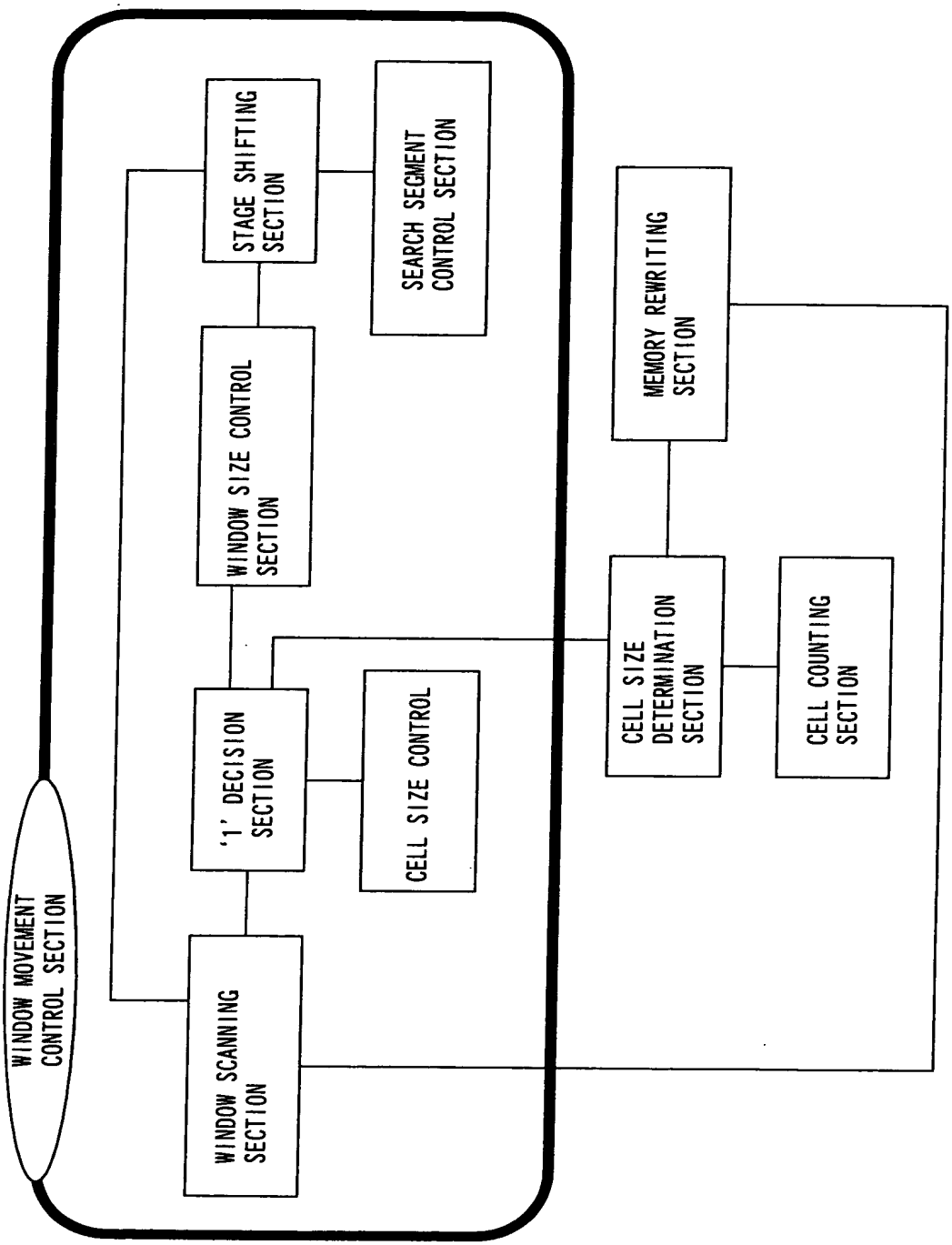
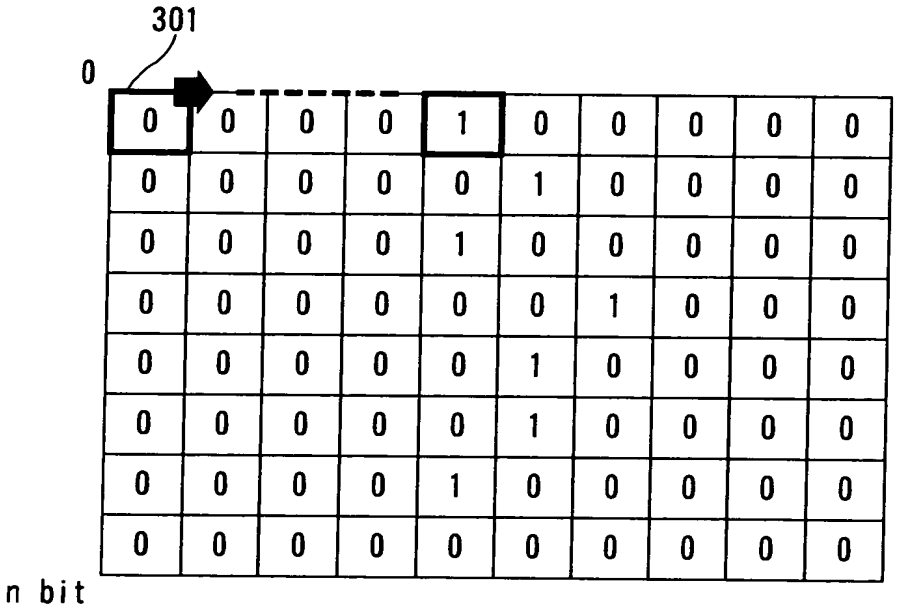

WINDOW MOVEMENT CONTROL SECTION
WINDOW SCANNING SECTION
'1' DECISION SECTION
CELL SIZE CONTROL
WINDOW SIZE CONTROL SECTION
STAGE SHIFTING SECTION
SEARCH SEGMENT CONTROL SECTION
CELL SIZE DETERMINATION SECTION
CELL COUNTING SECTION
MEMORY REWRITING SECTION

FIG. 13



0	0	0	0	1	0	0	0	0	0
0	0	0	0	0	1	0	0	0	0
0	0	0	0	1	0	0	0	0	0
0	0	0	0	0	0	1	0	0	0
0	0	0	0	0	1	0	0	0	0
0	0	0	0	0	1	0	0	0	0
0	0	0	0	1	0	0	0	0	0
0	0	0	0	0	0	0	0	0	0

FIG. 14

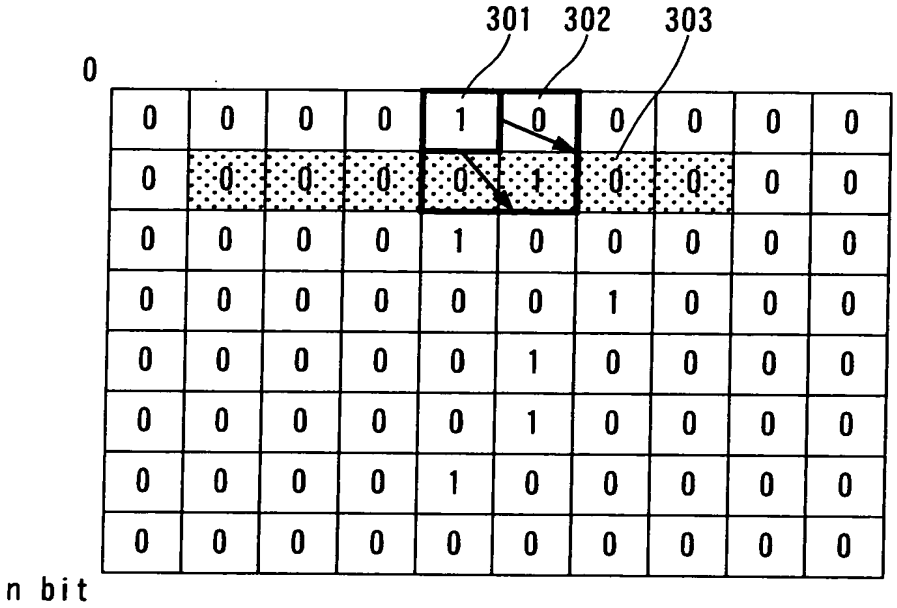

301
302
303
0
n bit
0 0 0 0 1 0 0 0 0 0
0 0 0 0 0 1 0 0 0 0
0 0 0 0 1 0 0 0 0 0
0 0 0 0 0 0 1 0 0 0
0 0 0 0 0 1 0 0 0 0
0 0 0 0 0 1 0 0 0 0
0 0 0 0 1 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0

FIG. 15

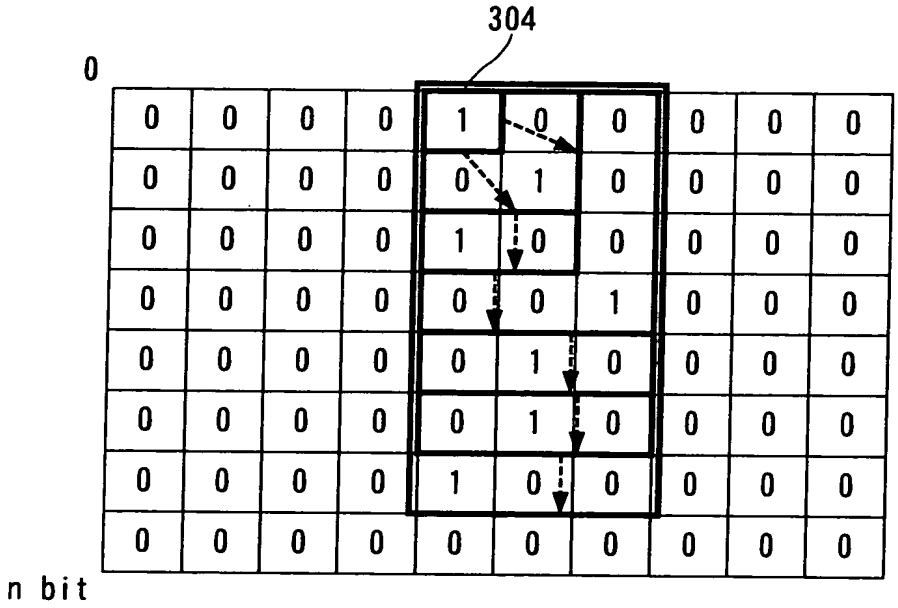

304
0
n bit
0 0 0 0 1 0 0 0 0 0
0 0 0 0 0 1 0 0 0 0
0 0 0 0 1 0 0 0 0 0
0 0 0 0 0 0 1 0 0 0
0 0 0 0 0 1 0 0 0 0
0 0 0 0 0 1 0 0 0 0
0 0 0 0 1 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0

FIG. 16 PRIOR ART

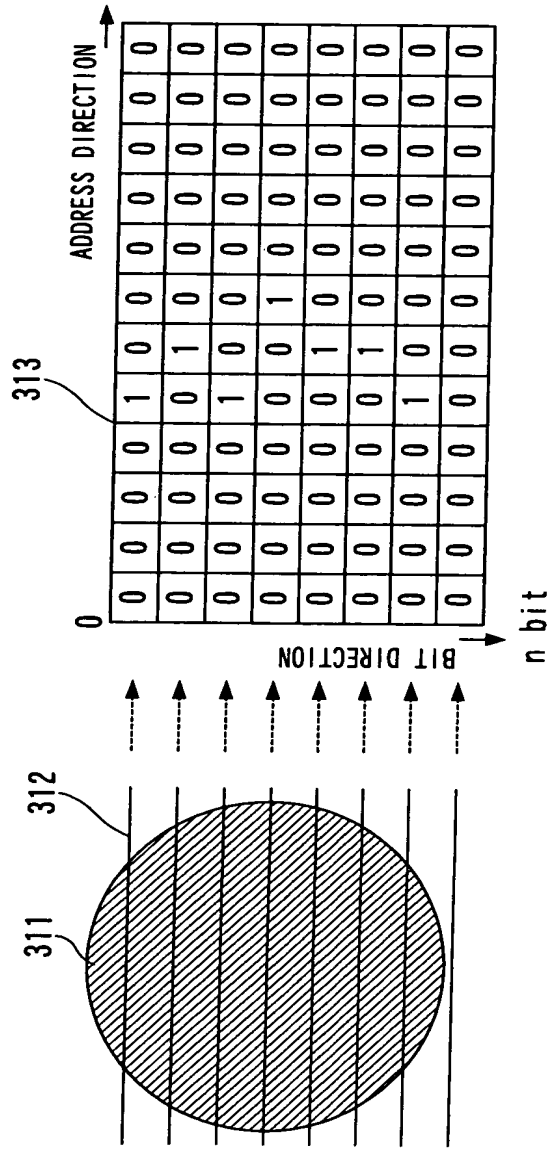


FIG. 17 PRIOR ART

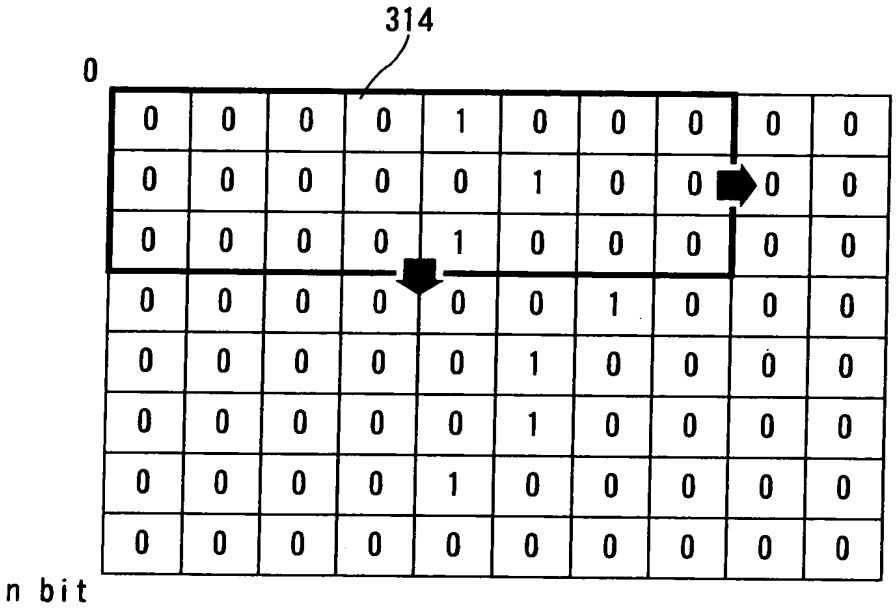


FIG. 18 PRIOR ART

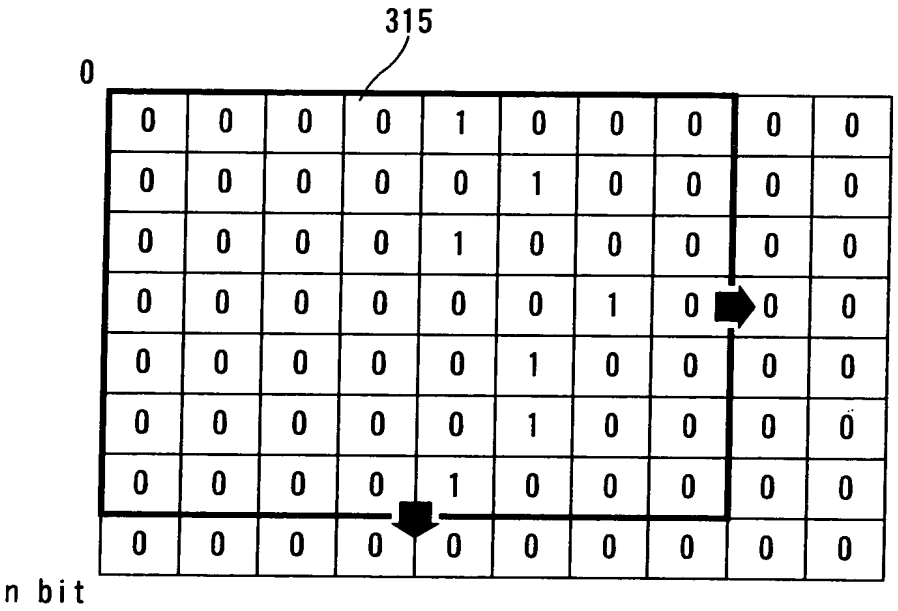


FIG. 19

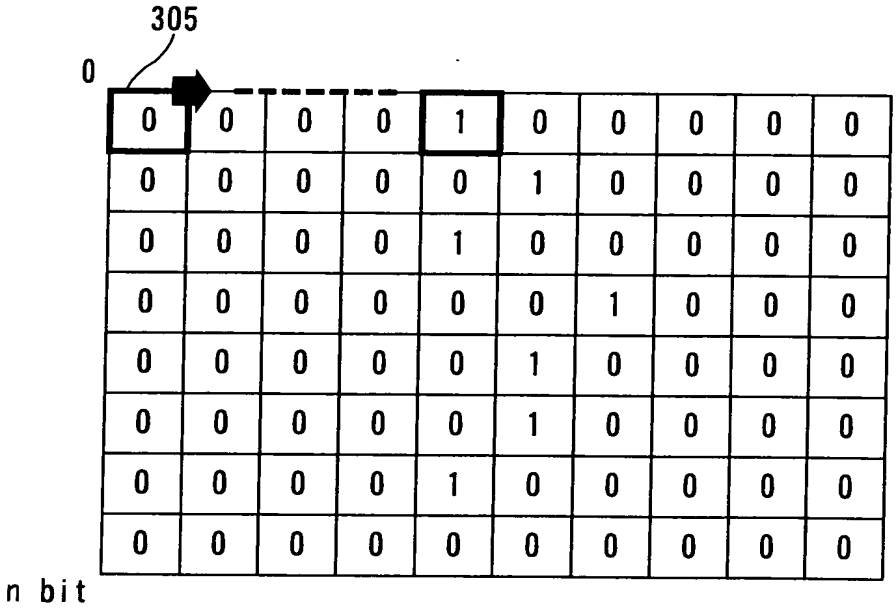

305
0
n bit
0 0 0 0 1 0 0 0 0 0
0 0 0 0 0 1 0 0 0 0
0 0 0 0 1 0 0 0 0 0
0 0 0 0 0 0 1 0 0 0
0 0 0 0 0 1 0 0 0 0
0 0 0 0 0 1 0 0 0 0
0 0 0 0 1 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0

FIG. 20

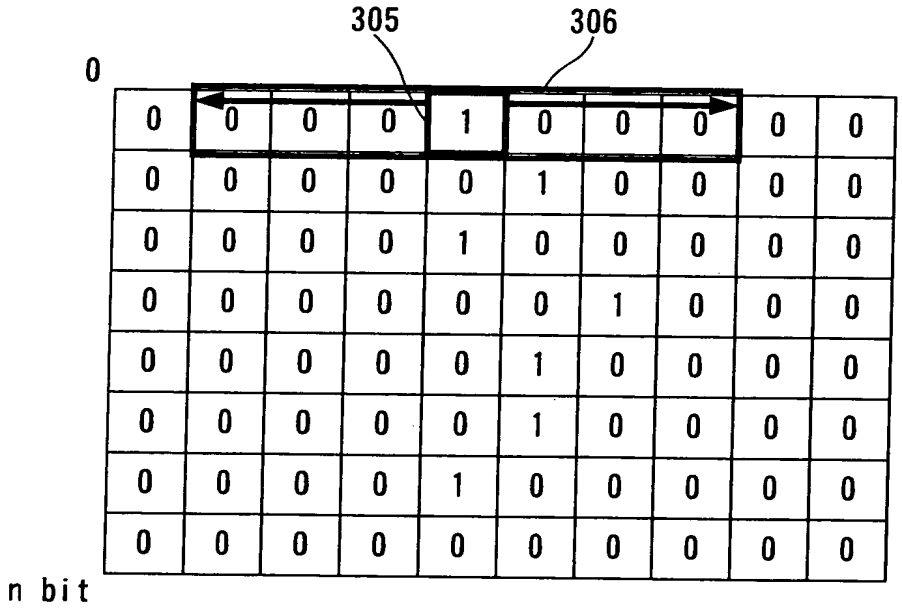
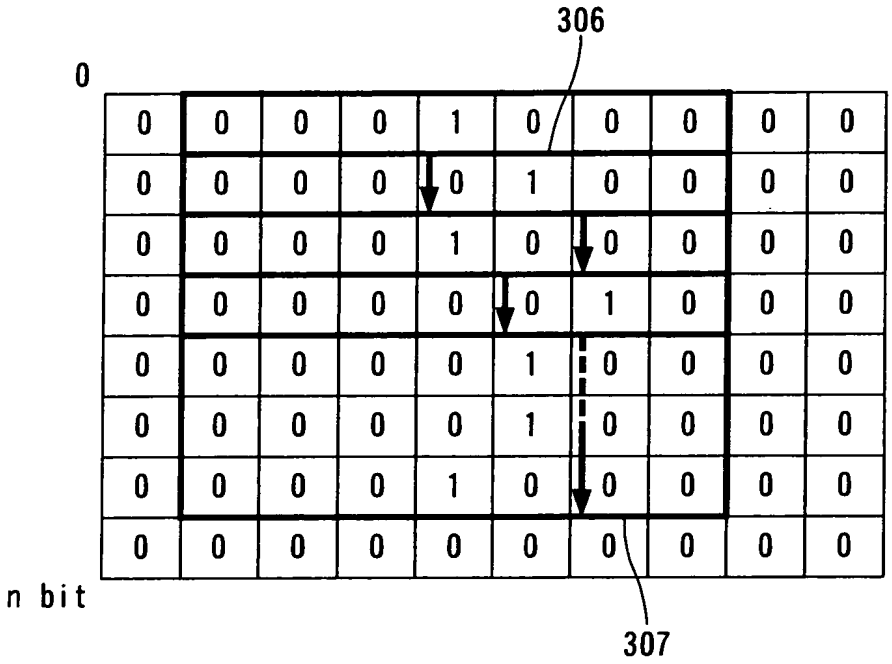

305
306
0
n bit
0 0 0 0 1 0 0 0 0 0
0 0 0 0 0 1 0 0 0 0
0 0 0 0 1 0 0 0 0 0
0 0 0 0 0 0 1 0 0 0
0 0 0 0 0 1 0 0 0 0
0 0 0 0 0 1 0 0 0 0
0 0 0 0 1 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0

FIG. 21


306
0
0 0 0 0 1 0 0 0 0 0
0 0 0 0 0 1 0 0 0 0
0 0 0 0 1 0 0 0 0 0
0 0 0 0 0 0 1 0 0 0
0 0 0 0 0 1 0 0 0 0
0 0 0 0 0 1 0 0 0 0
0 0 0 0 1 0 0 0 0 0
0 0 0 0 0 0 0 0 0 0
n bit
307